

# EUROPEAN PATENT OFFICE

## Patent Abstracts of Japan

PUBLICATION NUMBER : 04140413  
PUBLICATION DATE : 14-05-92

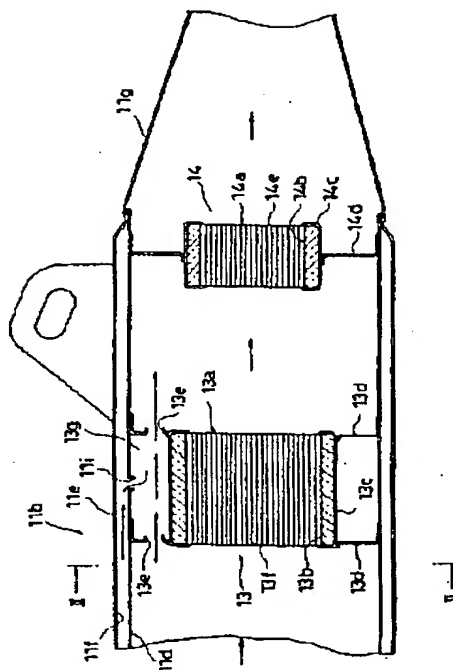
APPLICATION DATE : 01-10-90  
APPLICATION NUMBER : 02264836

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INT.CL. : F01N 3/34 F01N 3/28 F01N 3/34

TITLE : EXHAUST EMISSION CONTROL  
DEVICE FOR INTERNAL COMBUSTION  
ENGINE



ABSTRACT : PURPOSE: To prevent the abnormally high temperature of an upstream catalyst body and avoid the shortage of oxygen by introducing the secondary air by utilizing the negative pressure, by forming a communication passage, making a detour around the upstream side catalyst body, and forming a secondary air introducing hole in the vicinity of the communication passage.

CONSTITUTION: When exhaust gas flows to the vicinity of the upstream side catalyst body 13 in an expansion pipe 11b, almost all the parts flow out, passing through the inside of the reaction hole 13f of a monolithic catalyst 13a. Further, the rest exhaust gas flows into a communication passage 13g from an exhaust gas passing hole 13e. Accordingly, almost all the parts of the exhaust gas is purified through the catalytic reaction with the upstream side catalyst body 13, during passing through the reaction hole 13f. Since, in this case, the flow passage area of the communication passage 13g is relatively small, the flow speed of the exhaust gas is accelerated, and a negative pressure is generated inside the communication passage 13g. Accordingly, the secondary air which is purified by an air cleaner flows into the communication passage 13g from a secondary air introducing hole 11i. Accordingly, the unreacted exhaust gas is purified during passing through the reaction hole 14e of a downstream side catalyst body 14, together with the secondary air.

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